

## CLAIMS

What is claimed is:

- 5     1. A display system for a computer system, comprising:
  - a computer system having a plurality of electronic files stored therein,
  - a plurality of personalizable attributes assignable to each of said plurality of electronic
  - files,
  - and a selection space capable of displaying the plurality of electronic files, wherein a
  - 10    user may arrange the electronic files within the selection space according to the personalizable
  - attributes.
2. The display system of claim 1, wherein the selection space is a 3D representation.
- 15    3. The display system of claim 1, wherein the personalizable attributes are chosen from the
- group of attributes consisting of key words and classification information.
4. The display system of claim 1, wherein the selection space may be modified for viewing
- using a multiplicity of schemas.
- 20    5. The display system of claim 1, wherein the personalizable attributes are assigned manually
- by the user.

6. The display system of claim 1, wherein the personalizable attributes are assigned automatically based on classification controls or attribute database characteristics.
7. The display system of claim 6, wherein the personalizable attributes include XML metatags.
8. The display system of claim 1, wherein the selection space contains viewable images representative of the underlying file content.
9. The display system of claim 1, wherein the selection space has an appearance chosen from the group of schema consisting of a checkerboard, a bookstore, a music room, shelves, a virtual room and a cityscape.
10. The display system of claim 1, wherein the selection space has an appearance chosen from the group of schema consisting of hierarchical tree structures and cone trees.
11. The display system of claim 1, wherein a cursor of the computer system creates a visually magnified area of the selection space.
12. The display device of claim 1, wherein said computer system is selected from the group of computer systems consisting of game consoles, set-top boxes, personal computers, plant floor manufacturing equipment and automated control system.

13. The display device of claim 1, wherein said computer system is a mobile or wireless device.

14. A display system for a computer system, comprising:

- 5       a computer system having a plurality of electronic files stored therein, each of said plurality of electronic files having XML tags and an icon,  
and a customizable 3D desktop containing the icons associated with said plurality of electronic files, the icons arranged based on information in the XML tags,  
wherein a user may rearrange the icons.

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15. The display device of claim 14, further comprising a plurality of user input fields and wherein said 3D desktop may be arranged based information contained in said plurality of user input fields.

15   16. The display device of claim 14, wherein said user input fields create XML tags.

17. A display system for a computer system, comprising:

- a computer system having a plurality of electronic files stored therein,  
      a plurality of automatically generated WYSIWYG icons representing said plurality of  
20   electronic files, said WYSIWYG icons being generated based on file characteristics,  
      and a selection space capable of displaying the plurality of electronic files, wherein a user may arrange the electronic files within the selection space according to the personalizable attributes.

18. The display device of claim 17, wherein said file characteristics are selected from the group consisting of file size, date accessed, times accessed, and preferences.
- 5 19. The display device of claim 17, wherein said WYSIWYG icons have characteristics including size and color.
20. The display device of claim 17, wherein said WYSIWYG icon has a frequency of vibration.
- 10 21. The display device of claim 17, wherein said WYSIWYG icon has a sound.
22. The display device of claim 17, wherein said WYSIWYG icon is formed of multiple icons.
- 15 23. A method of storing, sorting and accessing files on a computer system, the method comprising the steps of:
- (a) assigning a plurality of personalized attributes to an electronic file;
  - (b) and accessing a selection space having a user defined schema.
- 20 24. The method of claim 23, further comprising the step of scanning the electronic file to create a content-representative icon.

25. The method of claim 23, further comprising the step of modifying the icon within the selection space.

26. Method for applying and using XML information with a plurality of existing electronic  
5 files, the method comprising the steps of:

- (a) opening an XML editor;
- (b) determining a type of XML file information to be entered;
- (c) entering XML tags for each electronic file;
- (d) sorting the plurality of electronic files based on an application of rules or filters to the  
10 XML tags;
- (e) and viewing the electronic files on a display.

27. The method of claim 26, wherein step (e) takes place in a 3D environment.

15 28. The method of claim 27, further comprising the steps of:

- (f) rearranging the electronic files within the 3D environment to create a selected arrangement;
- (g) and applying a reverse transformation to modify the XML tags, thereby allowing  
future application of rules or filters to result in the selected arrangement.

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29. The method of claim 26, wherein the electronic files are selected from the types of files consisting of MP3 files, search engine results, file visualizations and bookmarks.

30. The method of claim 26, wherein step (e) has a visualization schema.

31. The method of claim 30, wherein the visualization schema is chosen from a group of  
schema consisting of a planetarium, a volumetric shape, a landscape, a hyperbola, a tree  
5 structure, a cityscapes, a grid array, a daterium.

32. The method of claim 30, wherein the editor adds auditory sonification.

33. The method of claim 32, wherein the editor automatically performs step (a) based on the  
10 use of fuzzy logic.

34. The method of claim 33, wherein the fuzzy logic determines the XML tag based on at  
least one user specified parameter.